

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-22 (Canceled).

Claim 23 (Currently Amended): A device for receiving signals in a wireless cellular orthogonal frequency division multiplex (OFDM) system, in which data symbols are transmitted in frequency subcarriers and timeslots, comprising:

a channel estimator configured to perform a channel estimation on the basis of received pilot symbols, the channel estimator including a filter selector configured to adaptively select a filter for channel estimation from a plurality of available filters based on an interference reference value supplied to the filter selector; and

a filter configured to perform a channel estimation for data symbols between pilot symbols, said filter being further adaptively selected from ~~a set~~ the plurality of available filters on the basis of ~~an interference reference value and~~ a Doppler frequency of the data symbol to be channel estimated, said channel estimation being based on an estimated carrier to interference value ratio, said estimated carrier being a wanted carrier power value at a frequency subcarrier and a timeslot of a data symbol to be channel estimated.

Claim 24 (Currently Amended): The device according to Claim 23, wherein the filter selector is further configured to adaptively select the filter ~~further comprising: means for selecting said filter~~ based on the estimated carrier to interference ratio at the frequency subcarrier and the timeslot of the data symbol to be channel estimated.

Claim 25 (Previously Presented): The device according to Claim 24, wherein, if said filter to be selected is to be a frequency filter, said means for selecting selects said filter based

on a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 26 (Previously Presented): The device according to Claim 24, wherein, if said filter to be selected is to be a time filter, said means for selecting selects said filter based on a Doppler frequency of the estimated channel.

Claim 27 (Currently Amended): A method for channel estimation in a wireless cellular orthogonal frequency division multiplex (OFDM) system, in which data symbols are transmitted in frequency subcarriers and timeslots, comprising:

performing a channel estimation on the basis of received pilot symbols;

performing, adaptively, a filter selection for channel estimation by a filter selector, the filter selector selecting from a plurality of available filters based on an interference reference value supplied to the filter selector; and

performing, by a filter, a channel estimation for data symbols between pilot symbols, said filter being further adaptively selected from the plurality a set of available filters based on the basis of an interference reference value and a Doppler frequency of the data symbol to be channel estimated, said channel estimation being based on an estimated carrier to interference value ratio, the estimated carrier being a wanted carrier power value at a frequency subcarrier and a timeslot of a data symbol to be channel estimated.

Claim 28 (Currently Amended): The method according to Claim 27, wherein said performing, adaptively, a filter selection may be further performed further comprising: ~~selecting the filter~~ based on the estimated carrier to interference ratio at the frequency subcarrier and the timeslot of the data symbol to be channel estimated.

Claim 29 (Previously Presented): The method according to Claim 28, wherein, if said filter to be selected is a frequency filter, said filter is further selected on the basis of a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 30 (Previously Presented): The method according to Claim 28, wherein, if said filter to be selected is to be a time filter, said filter is further selected on the basis of a Doppler frequency of the estimated channel.

Claim 31 (Previously Presented): The method according to Claim 27, wherein said filter is selected from among a set of filters based on the estimated carrier to interference ratio and a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 32 (Canceled).

Claim 33 (Previously Presented): The device according to Claim 24, wherein said filter is selected from among a set of filters based on the estimated carrier to interference ratio and a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 34 (Canceled).